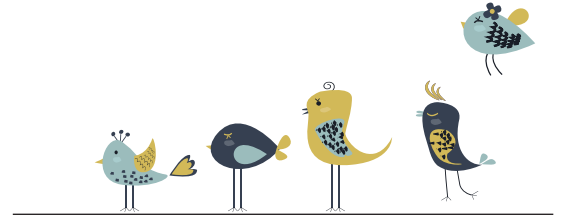


ILLUSTRATING WHOLE NUMBER BY FRACTION PRODUCTS

A number line is a great way to illustrate fractions as a product of a whole number and a fraction.
Using a three step process, it's easy and fun!

EXAMPLE: $\frac{3}{7}$



STEP 1: Establish the whole number of the two factors:

Look to the fraction's numerator to find the whole number factor.

$$\rightarrow \frac{\textcircled{3}}{7} \quad 3 \times ? = \frac{3}{7}$$

We identify 3 (the numerator) as the whole number factor.

STEP 2: Establish the unit fraction of the two factors:

Look to the fraction's denominator to find the unit fraction factor.

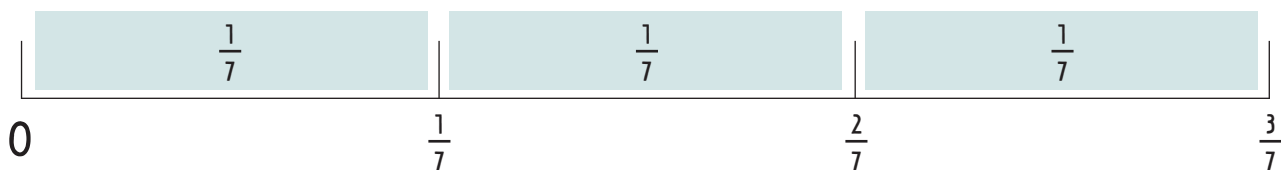
$$\rightarrow \frac{3}{\textcircled{7}} \quad 3 \times \frac{1}{7} = \frac{3}{7}$$

We identify 7 (the denominator) as the unit fraction for individual partitions: represented as $\frac{1}{7}$ each.

Write the equivalent addition sentence, to reinforce understanding:

$$\frac{1}{7} + \frac{1}{7} + \frac{1}{7} = \frac{3}{7}$$

STEP 3: Illustrate the number sentence: $3 \times \frac{1}{7} = \frac{3}{7}$ on the number line, as demonstrated below:



There are 3 sections where each section is in $\frac{1}{7}$ unit fractions.

And the best part is: the total length is the fraction as a product!

$$3 \times \frac{1}{7} = \frac{3}{7} \quad \text{and} \quad \frac{1}{7} + \frac{1}{7} + \frac{1}{7} = \frac{3}{7}$$

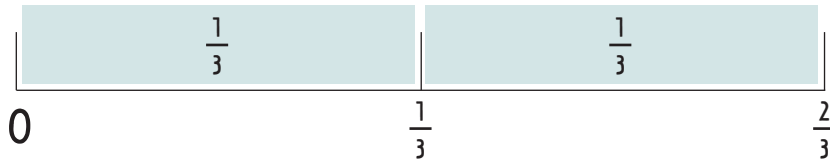


ILLUSTRATING WHOLE NUMBER BY FRACTION PRODUCTS

A number line is a great way to illustrate fractions as a product of a whole number and a fraction.

Using a three step process, it's easy and fun!

EXAMPLE: $\frac{2}{3}$



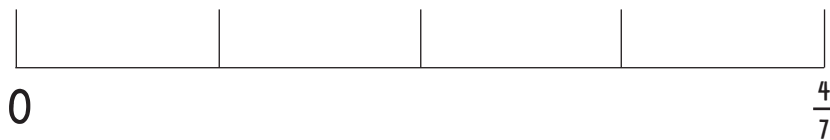
$$2 \times \frac{1}{3} = \frac{2}{3}$$

$$\frac{1}{3} + \frac{1}{3} = \frac{2}{3}$$

1. $\frac{5}{8}$



2. $\frac{4}{7}$



3. $\frac{3}{4}$



4. $\frac{1}{2}$



TAKE A CLOSER LOOK! What would be the number sentences for $\frac{1}{7}$ and $\frac{2}{7}$ if each were a product of a whole number and a fraction?